Yahya Ansari

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WORK EXPERIENCE

Dimentics Infotech Pvt. Ltd. Remote

Subject Matter Expert - Fulltime Intern *Dec 2021 - Jun 2022*

- Reviewed and edited existing course content for Thermodynamics and Fluid Mechanics courses, improving accuracy by 15% and ensuring alignment with industry standards.
- Created high quality solutions for mechanical engineering subjects as per the guidelines.

Digipplus Remote

Subject Matter Expert - Fulltime Intern *Oct 2022 - Dec 2022*

- Reviewed and edited 100+ solutions daily for class 6-10 Mathematics, ensuring accuracy and adherence to strict guidelines.
- Implemented innovative approaches to increase efficiency and quality of content review, resulting in a 30% decrease in error rate.
- Worked collaboratively with cross-functional teams to provide timely feedback on content review processes, leading to a 20% increase in overall productivity.

PROJECT EXPERIENCE

Cardiovascular Risk Prediction - Classification Mumbai

Almabetter *Apr 2023 - May 2023*

- Utilized machine learning techniques to predict 10-year risk of coronary heart disease (CHD) in patients using data from the Framingham Heart Study.
- Conducted extensive data preprocessing and feature selection to identify the most important risk factors for CHD and balanced class distribution using SMOTE combined with Tomek links undersampling technique.
- Developed a final prediction model using a tuned Neural Network that achieved a high recall score, accurately identifying patients at risk for CHD.

Seoul Bike Sharing Demand Prediction - Regression Mumbai

Almabetter *Jan 2023 - Feb 2023*

- Developed a machine learning model to accurately predict bike rental demand in Seoul, South Korea using regression analysis techniques.
- Trained the model on historical bike rental data along with relevant weather and time data, achieving an accuracy of around 93% on the training data and 90% on the test data using the Xtreme gradient boosting algorithm.
- Demonstrated the practical applications of machine learning in addressing real-world transportation problems and optimizing bike sharing operations.

Telecom Churn - Exploratory Data Analysis Mumbai

Almabetter *Dec 2022 - Jan 2023*

- Analyzed a churn dataset in the telecommunications industry to identify the main factors contributing to customer churn and gain valuable insights.
- Conducted exploratory data analysis using pandas, seaborn, matplotlib.pyplot library and google colaboratory to gain insight into the churn dataset.
- Provided valuable insights to help prioritize retention and reduce customer churn in a well-established market with a slow rate of new customers.

Python Programs for Engineering CFD Mumbai

Self Project *May 2021 - Jun 2021*

- Created 4 Python programs for engineering computational fluid dynamics problems to learn Python programming and packages like pandas and matplotlib.
- Developed TDMA-Solver, FVM-1D-Steady-State-Diffusion-solver, Convection-Diffusion-1D-Steady-State and TRANSIENT-1D-Unsteady-State-Diffusion-solver.
- Demonstrated proficiency in Python programming and the use of relevant packages for solving complex engineering problems.

Design and Development of Lower Body Exoskeleton Mumbai

Engineering *Jun 2018 - Mar 2019*

- Developed a cost-effective lower body exoskeleton that effectively traced a humanoid gait cycle when operated.
- Worked as the lead designer on the team responsible for the development of the exoskeleton.
- Demonstrated proficiency in design and engineering to create a functional and cost-effective solution to a complex problem.

SKILLS & INTERESTS

Skills: Microsoft Office (Excel, Word, PowerPoint), SolidWorks, Ansys, Git, GitHub, Python, SQL (postgre), Machine Learning

Interests: Machine Learning, Artificial intelligence, Predictive modeling, Natural language processing, Deep learning, Neural networks, Computer vision

EDUCATION

M. H. Saboo Siddik College of Engineering Mumbai

Bachelors of Engineering in Automobile Engineering